

**AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions and listings of claims in the application:

**CLAIM LISTING:**

1. (Currently Amended) A composition comprising:

at least one compound chosen from ceramides and glycosceramides,

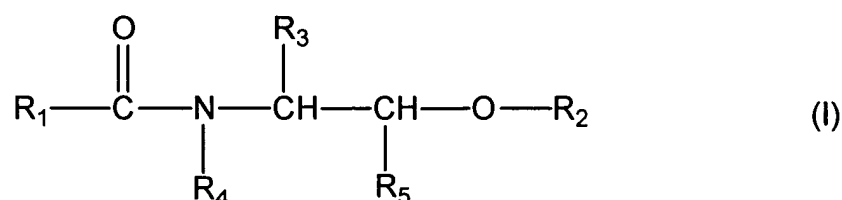
at least one cationic polymer, and

at least one amphoteric polymer chosen from polyquaternium-22,

wherein the weight ratio of said at least one cationic polymer to said at least one amphoteric polymer is greater than or equal to 3:1.

2. (Original) A composition according to claim 1, wherein said ceramides and glycosceramides are chosen from natural and synthetic ceramides, natural and synthetic glycosceramides, natural and synthetic pseudoceramides and natural and synthetic neoceramides.

3. (Original) A composition according to claim 1, wherein said natural and synthetic ceramides and natural and synthetic glycosceramides correspond to the following formula (I):



wherein

- R<sub>1</sub> is chosen from:

- linear and branched, saturated and unsaturated,  $C_5-C_{50}$  hydrocarbon radicals, wherein said radicals may be substituted with at least one hydroxyl group, said at least one hydroxyl group being optionally esterified with an acid  $R_6COOH$  wherein  $R_6$  is chosen from saturated and unsaturated, linear and branched  $C_1-C_{35}$  hydrocarbon radicals which may be monohydroxylated or polyhydroxylated, and further wherein when said hydrocarbon radicals of  $R_6$  are mono- or polyhydroxylated, said hydroxyl group(s) may be esterified with a compound chosen from saturated and unsaturated, linear and branched  $C_1-C_{35}$  fatty acids which may be monohydroxylated or polyhydroxylated,

-  $R''-(NR-CO)-R'$  radicals, wherein  $R$  is chosen from a hydrogen atom and mono- and polyhydroxylated  $C_1-C_{20}$  hydrocarbon radicals, and  $R'$  and  $R''$  are chosen from hydrocarbon radicals in which the sum of the carbon atoms ranges from 9 to 30,  $R'$  being a divalent radical, and

-  $R_7-O-CO-(CH_2)_a$  radicals, wherein  $R_7$  is chosen from  $C_1-C_{20}$  hydrocarbon radicals and  $a$  is an integer ranging from 1 to 12;

-  $R_2$  is chosen from a hydrogen atom and (glycosyl)<sub>b</sub>, (galactosyl)<sub>c</sub>, sulphogalactosyl, phosphorylethylamine and phosphorylethylammonium radicals, wherein  $b$  is an integer ranging from 1 to 4 and  $c$  is an integer ranging from 1 to 8;

-  $R_3$  is chosen from a hydrogen atom and saturated and unsaturated, hydroxylated and non-hydroxylated  $C_1-C_{33}$  hydrocarbon radicals, it being possible for the hydroxylated hydrocarbon radical(s) to be esterified with an acid chosen from inorganic acids and organic acids of the formula  $R_6COOH$ , wherein  $R_6$  is defined above, it also being possible for the hydroxylated hydrocarbon radical(s) to be etherified with a radical

chosen from (glycosyl)<sub>b</sub>, (galactosyl)<sub>c</sub>, sulphogalactosyl, phosphorylethylamine and phosphorylethylammonium radicals, wherein b and c are defined above, and it also being possible for R<sub>3</sub> to be substituted with at least one C<sub>1</sub>-C<sub>14</sub> alkyl radical;

- R<sub>4</sub> is chosen from a hydrogen atom, methyl radicals, ethyl radicals, saturated and unsaturated, linear and branched, optionally hydroxylated C<sub>3</sub>-C<sub>50</sub> hydrocarbon radicals and radicals -CH<sub>2</sub>-CHOH-CH<sub>2</sub>-O-R<sub>8</sub> in which R<sub>8</sub> is chosen from C<sub>10</sub>-C<sub>26</sub> hydrocarbon radicals and radicals R<sub>7</sub>-O-CO-(CH<sub>2</sub>)<sub>a</sub>, R<sub>7</sub> being chosen from C<sub>1</sub>-C<sub>20</sub> hydrocarbon radicals and a being an integer ranging from 1 to 12;

- R<sub>5</sub> is chosen from a hydrogen atom and saturated and unsaturated, linear and branched, optionally mono- and polyhydroxylated C<sub>1</sub>-C<sub>30</sub> hydrocarbon radicals, it being possible for the hydroxyl radical(s) to be etherified with a radical chosen from (glycosyl)<sub>b</sub>, (galactosyl)<sub>c</sub>, sulphogalactosyl, phosphorylethylamine and phosphorylethylammonium radicals, wherein b and c are defined above;

with the proviso that when R<sub>3</sub> and R<sub>5</sub> are a hydrogen atom or when R<sub>3</sub> is a hydrogen atom and R<sub>5</sub> is a methyl radical, then R<sub>4</sub> is not a hydrogen atom or a methyl or ethyl radical.

4. (Withdrawn) A composition according to claim 3, wherein in said radicals R''-(NR-CO)-R', R is chosen from monohydroxylated C<sub>1</sub>-C<sub>20</sub> hydrocarbon radicals.

5. (Original) A composition according to claim 3, wherein in said formula (I), R<sub>3</sub> is chosen from C<sub>15</sub>-C<sub>26</sub> α-hydroxyalkyl radicals wherein the hydroxyl group may optionally be esterified with a C<sub>16</sub>-C<sub>30</sub> α-hydroxy acid.

6. (Original) A composition according to claim 3, wherein in formula (I), R<sub>1</sub> is an optionally hydroxylated, saturated or unsaturated alkyl radical derived from C<sub>14</sub>-C<sub>22</sub> fatty

acids;  $R_2$  is a hydrogen atom; and  $R_3$  is an optionally hydroxylated linear, saturated  $C_{11}$ - $C_{17}$  radical.

7. (Original) A composition according to claim 6, wherein  $R_3$  is an optionally hydroxylated linear, saturated  $C_{13}$ - $C_{15}$  radical.

8. (Previously Presented) A composition according to claim 1, wherein said at least one compound chosen from ceramides and glycosphingolipids is chosen from:

- N-linoleoyldihydrosphingosine,
- N-palmitoyldihydrosphingosine,
- N-stearoyldihydrosphingosine,
- N-behenoyldihydrosphingosine,
- N-2-hydroxypalmitoyldihydrosphingosine,
- N-stearoylphytosphingosine,
- 2-oleamido-1,3-octadecanediol, and
- N-palmitamidohexadecanediol.

9. (Original) A composition according to claim 8, wherein said at least one compound chosen from ceramides and glycosphingolipids is chosen from 2-oleamido-1,3-octadecanediol and N-2-hydroxypalmitoyldihydrosphingosine.

10. (Original) A composition according to claim 1, wherein said at least one cationic polymer is chosen from cationic polymers containing monomer units comprising amine groups chosen from primary, secondary, tertiary and quaternary amine groups, wherein said amine groups may either form part of the main polymer chain or can be borne by a side substituent directly linked thereto.

11. (Original) A composition according to claim 10, wherein said at least one cationic polymer is chosen from polyamine, polyamino amide and polyquaternary ammonium polymers.

12. (Original) A composition according to claim 1, wherein said at least one cationic polymer is chosen from polyquaternium-2, polyquaternium-34, and hexadimethrine chloride.

13. (Canceled).

14. (Canceled).

15. (Canceled).

16. (Original) A composition according to claim 1, wherein said at least one compound chosen from ceramides and glycoceramides is present in the composition in an amount effective for providing improved protection to said keratinous fibers.

17. (Original) A composition according to claim 1, wherein said at least one compound chosen from ceramides and glycoceramides is present in said composition in an amount ranging from about 0.0005% to about 2% by weight relative to the total weight of the composition.

18. (Original) A composition according to claim 17, wherein said at least one compound chosen from ceramides and glycoceramides is present in said composition in an amount ranging from about 0.001% to about 1% by weight relative to the total weight of the composition.

19. (Original) A composition according to claim 1, wherein said at least one cationic polymer is present in the composition in an amount effective to provide improved styling to said keratinous fibers, and further wherein the composition contains

at least one compound chosen from ceramides and glycoceramides present in an amount effective for providing improved protection to said keratinous fibers.

20. (Original) A composition according to claim 1, wherein said at least one cationic polymer is present in said composition in an amount ranging from about 0.01% to about 5% by weight relative to the total weight of the composition.

21. (Original) A composition according to claim 20, wherein said at least one cationic polymer is present in said composition in an amount ranging from about 0.05% to about 2% by weight relative to the total weight of the composition.

22. (Original) A composition according to claim 1, wherein said at least one amphoteric polymer is present in said composition in an amount effective to provide improved styling to said keratinous fibers, and further wherein the composition contains at least one compound chosen from ceramides and glycoceramides present in an amount effective for providing improved protection to said keratinous fibers.

23. (Original) A composition according to claim 1, wherein said at least one amphoteric polymer is present in said composition in an amount ranging from about 0.01% to about 5% by weight relative to the total weight of the composition.

24. (Original) A composition according to claim 23, wherein said at least one amphoteric polymer is present in said composition in an amount ranging from about 0.05% to about 2% by weight relative to the total weight of the composition.

25. (Original) A composition according to claim 1, further comprising at least one adjuvant chosen from surfactants chosen from anionic, cationic, nonionic, and amphoteric surfactants; polymers chosen from anionic, nonionic, additional cationic and additional amphoteric polymers; thickeners chosen from inorganic and organic

thickeners; antioxidants; stabilizing agents; propellants; sequestering agents; emollients; humectants; fragrances; acidifying and basifying agents; sunscreens; vitamins; essential fatty acids; proteins and protein derivatives; preservatives; and opacifiers.

26. (Original) A composition according to claim 1, wherein said composition is in the form of an aqueous emulsion, a gel, a spray, or a hydroalcoholic lotion.

27. (Withdrawn -- Currently Amended) A process for protecting keratinous fibers from damage caused by chemical treatment of said keratinous fibers comprising:

applying to said keratinous fibers a leave-in composition comprising at least one compound chosen from ceramides and glycosphingolipids,

at least one cationic polymer, and

at least one amphoteric polymer chosen from polyquaternium-22,

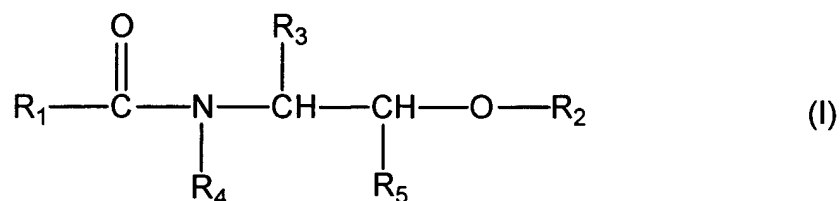
wherein the weight ratio of said at least one cationic polymer to said at least one amphoteric polymer is greater than or equal to 3:1, and

applying to said keratinous fibers having thereon said leave-in composition a chemical treatment composition for chemical treatment of said keratinous fibers.

28. (Withdrawn) A process according to claim 27, wherein said chemical treatment is chosen from dyeing, bleaching, relaxing, and permanent waving.

29. (Withdrawn) A process according to claim 27, wherein said ceramides and glycosphingolipids are chosen from natural or synthetic ceramides, glycosphingolipids, pseudoceramides and neoceramides.

30. (Withdrawn) A process according to claim 29, wherein said natural or synthetic ceramides and glycosphingolipids correspond to the following formula (I):



wherein

- R<sub>1</sub> is chosen from:

- linear and branched, saturated and unsaturated, C<sub>5</sub>-C<sub>50</sub> hydrocarbon radicals, wherein said radicals may be substituted with at least one hydroxyl group, said at least one hydroxyl group being optionally esterified with an acid R<sub>6</sub>COOH wherein R<sub>6</sub> is chosen from saturated and unsaturated, linear and branched C<sub>1</sub>-C<sub>35</sub> hydrocarbon radicals which may be monohydroxylated or polyhydroxylated, and further wherein when said hydrocarbon radicals of R<sub>6</sub> are mono- or polyhydroxylated, said hydroxyl group(s) may be esterified with a compound chosen from saturated and unsaturated, linear and branched C<sub>1</sub>-C<sub>35</sub> fatty acids which may be monohydroxylated or polyhydroxylated,

- R''-(NR-CO)-R' radicals, wherein R is chosen from a hydrogen atom and mono- and polyhydroxylated C<sub>1</sub>-C<sub>20</sub> hydrocarbon radicals, and R' and R'' are chosen from hydrocarbon radicals in which the sum of the carbon atoms ranges from 9 to 30, R' being a divalent radical, and

- R<sub>7</sub>-O-CO-(CH<sub>2</sub>)<sub>a</sub> radicals, wherein R<sub>7</sub> is chosen from C<sub>1</sub>-C<sub>20</sub> hydrocarbon radicals and a is an integer ranging from 1 to 12;

- R<sub>2</sub> is chosen from a hydrogen atom and (glycosyl)<sub>b</sub>, (galactosyl)<sub>c</sub>, sulphogalactosyl, phosphorylethylamine and phosphorylethylammonium radicals, wherein b is an integer ranging from 1 to 4 and c is an integer ranging from 1 to 8;



- $R_3$  is chosen from a hydrogen atom and saturated and unsaturated, hydroxylated and non-hydroxylated  $C_1$ - $C_{33}$  hydrocarbon radicals, it being possible for the hydroxylated hydrocarbon radical(s) to be esterified with an acid chosen from inorganic acids and organic acids of the formula  $R_6COOH$ , wherein  $R_6$  is defined above, it also being possible for the hydroxylated hydrocarbon radical(s) to be etherified with a radical chosen from (glycosyl)<sub>b</sub>, (galactosyl)<sub>c</sub>, sulphogalactosyl, phosphorylethylamine and phosphorylethylammonium radicals, wherein b and c are defined above, and it also being possible for  $R_3$  to be substituted with at least one  $C_1$ - $C_{14}$  alkyl radical;
- $R_4$  is chosen from a hydrogen atom, methyl radicals, ethyl radicals, saturated and unsaturated, linear and branched, optionally hydroxylated  $C_3$ - $C_{50}$  hydrocarbon radicals and radicals  $-CH_2-CHOH-CH_2-O-R_8$  in which  $R_8$  is chosen from  $C_{10}$ - $C_{26}$  hydrocarbon radicals and radicals  $R_7-O-CO-(CH_2)_a$ ,  $R_7$  being chosen from  $C_1$ - $C_{20}$  hydrocarbon radicals and a being an integer ranging from 1 to 12;
- $R_5$  is chosen from a hydrogen atom and saturated and unsaturated, linear and branched, optionally mono- and polyhydroxylated  $C_1$ - $C_{30}$  hydrocarbon radicals, it being possible for the hydroxyl radical(s) to be etherified with a radical chosen from (glycosyl)<sub>b</sub>, (galactosyl)<sub>c</sub>, sulphogalactosyl, phosphorylethylamine and phosphorylethylammonium radicals, wherein b and c are defined above;

with the proviso that when  $R_3$  and  $R_5$  are a hydrogen atom or when  $R_3$  is a hydrogen atom and  $R_5$  is a methyl radical, then  $R_4$  is not a hydrogen atom or a methyl or ethyl radical.

31. (Withdrawn) A process according to claim 30, wherein in said radicals  $R''$ - $(NR-CO)-R'$ , R is chosen from monohydroxylated  $C_1$ - $C_{20}$  hydrocarbon radicals.

32. (Withdrawn) A process according to claim 30, wherein in said formula (I),  $R_3$  is chosen from  $C_{15}$ - $C_{26}$   $\alpha$ -hydroxyalkyl radicals wherein the hydroxyl group may optionally be esterified with a  $C_{16}$ - $C_{30}$   $\alpha$ -hydroxy acid.

33. (Withdrawn) A process according to claim 30, wherein in formula (I),  $R_1$  is an optionally hydroxylated, saturated or unsaturated alkyl radical derived from  $C_{14}$ - $C_{22}$  fatty acids;  $R_2$  is a hydrogen atom; and  $R_3$  is an optionally hydroxylated linear, saturated  $C_{11}$ - $C_{17}$  radical.

34. (Withdrawn) A process according to claim 33, wherein  $R_3$  is an optionally hydroxylated linear, saturated  $C_{13}$ - $C_{15}$  radical.

35. (Withdrawn -- Previously Presented) A process according to claim 27, wherein said at least one compound chosen from ceramides and glycosphingolipids is chosen from:

- N-linoleoyldihydrosphingosine,
- N-palmitoyldihydrosphingosine,
- N-stearoyldihydrosphingosine,
- N-behenoyldihydrosphingosine,
- N-2-hydroxypalmitoyldihydrosphingosine,
- N-stearoylphytosphingosine,
- 2-oleamido-1,3-octadecanediol, and
- N-palmitamidohexadecanediol.

36. (Withdrawn) A process according to claim 35, wherein said at least one compound chosen from ceramides and glycosphingolipids is chosen from 2-oleamido-1,3-octadecanediol and N-2-hydroxypalmitoyldihydrosphingosine.

37. (Canceled) A process according to claim 27, wherein said leave-in composition further comprises at least one polymer chosen from at least one cationic polymer and at least one amphoteric polymer.

38. (Withdrawn -- Currently Amended) A process according to claim ~~[[37]]~~27, wherein said at least one cationic polymer is chosen from cationic polymers containing monomer units comprising amine groups chosen from primary, secondary, tertiary and quaternary amine groups, wherein said amine groups may either form part of the main polymer chain or can be borne by a side substituent directly linked thereto.

39. (Withdrawn) A process according to claim 38, wherein said at least one cationic polymer is chosen from polyamine, polyamino amide and polyquaternary ammonium polymers.

40. (Withdrawn) A process according to claim 39, wherein said at least one cationic polymer is chosen from polyquaternium-2, polyquaternium-34, and hexadimethrine chloride.

41. (Canceled).

42. (Canceled).

43. (Canceled).

44. (Withdrawn -- Currently Amended) A process according to claim 27, wherein said at least one compound ~~wherein~~ chosen from ceramides and glycosceramides is present in the composition in an amount effective for providing improved protection to said keratinous fibers.

45. (Withdrawn) A process according to claim 27, wherein said at least one compound chosen from ceramides and glycosceramides is present in said composition in

an amount ranging from about 0.0005% to about 2% by weight relative to the total weight of the composition.

46. (Withdrawn) A process according to claim 27, wherein said at least one cationic polymer is present in the composition in an amount effective to provide improved styling to said keratinous fibers, and further wherein the composition contains at least one compound chosen from ceramides and glycoceramides present in an amount effective for providing improved protection to said keratinous fibers.

47. (Withdrawn) A process according to claim 27, wherein said at least one cationic polymer is present in said composition in an amount ranging from about 0.01 to about 5% by weight relative to the total weight of the composition.

48. (Withdrawn) A process according to claim 27, wherein said at least one amphoteric polymer is present in said composition in an amount effective to provide improved styling to said keratinous fibers, and further wherein the composition contains at least one compound chosen from ceramides and glycoceramides present in an amount effective for providing improved protection to said keratinous fibers.

49. (Withdrawn) A process according to claim 27, wherein said at least one amphoteric polymer is present in said composition in an amount ranging from about 0.01 to about 5% by weight relative to the total weight of the composition.

50. (Currently Amended) A multi-compartment kit for chemical treatment of keratinous fibers, said kit comprising at least two separate compartments, wherein a first compartment comprises a composition comprising  
at least one compound chosen from ceramides and glycoceramides,  
at least one cationic polymer, and

at least one amphoteric polymer chosen from polyquaternium-22, and  
a second compartment comprises a composition for chemical treatment of said  
keratinous fibers,  
wherein said composition for chemical treatment is an oxidizing composition.

51. (Canceled).

52. (Canceled).

53. (Currently Amended) A pretreatment composition comprising:

at least one compound chosen from ceramides and glycoceramides,

at least one cationic polymer, and

at least one amphoteric polymer chosen from polyquaternium-22,

wherein said pretreatment composition is not a dyeing composition, a bleaching  
composition, a permanent waving composition, a relaxing composition, or a  
straightening composition,

wherein the weight ratio of said at least one cationic polymer to said at least one  
amphoteric polymer is greater than or equal to 2:1, and

wherein the pH of said pretreatment composition is greater than or equal to  
about 4.